piece 1, NC_000913, bcp_hyfA+, config: linear, direction: +, begin: 2598941, end: 2599242

```
            *        *2598950  *        *2598960  *        *2598970  *        *2598980  *        *2598990  *        *2599000  *        *2599010  *        *2599020
5' g t g c t g a a c t g g c t g a a a g a a c a c g c c t g a t t a c t t t g c t c c a t t c c g t g c t g g c t g c g c t t g c g g c c a g c a t a c c t c a c t 3'
  -fMet - leu - asn - trp - leu - lys - glu - his - ala -   -   -   -   -   -   -   -   -   -   -   -   -   -   -fMet - arg - pro - ala - tyr - leu - thr -
       - cys -                                                                                                                                        
       - ala - glu - leu - ala - glu - arg - thr - arg - leu - ile - thr - leu - leu - his - ser - val - leu - ala - ala - leu - ala - ala - ser - ile - pro - his - phe -

            *        *2599030  *        *2599040  *        *2599050  *        *2599060  *        *2599070  *        *2599080  *        *2599090  *        *2599100
5' t c t c g t g a t c a a g a t c a c a t t c t c g c t t c c c c t g c a g a c g g g t g t c g a a t c c a t t t t t t g c t g a a c g t t a a t g a c c a t c 3'
  - ser - arg - asp - gln - asp - his - ile - leu - ala - phe - pro - cys - asp - thr - gly - val - glu - ser - ile - phe - cys -   -   -   -   -fMet - thr - ile -
       - fMet - ile - lys - ile - thr - phe - ser - leu - ser - pro - ala - thr - arg - val - ser - asn - pro - phe - phe - ala - glu - arg -   -   -   -   -
  - ser -                                                                                                                          -fMet - leu - asn - val - asn - asp - his - his -
```

p35 3.9 bits ... p10

{--} p35-(22)-p10 2599100 Gap 2.3 bits
 -- p35-p10 2599100 total 5.1 bits

p35 1.9 bits

{--------------- ... p35-(23)-p10 2599118 Gap
 --------------- ... p35-p10 2599118 total 4.1

```
            *        *2599110  *        *2599120  *        *2599130  *        *2599140  *        *2599150  *        *2599160  *        *2599170  *        *2599180
5' a t t t t t g t a c c g t t c a g a a t c c a g t t a a t a c a t a a c t t a t t g a a t a t a t t g a g t t a a t c a g a a t g g c a t c c t t t a t g c a a t 3'
  - ile - phe - val - pro - phe - arg - ile - gln - leu - ile - his - asn - leu - leu - asn - ile - leu - ser -
       - fMet - tyr - arg - glu - ser - ser -
       - phe - cys - thr - val - gln - asn - pro - val - asn - thr -                                           -fMet - ala - ser - phe - met - gln - tyr -
```

... p10 3.5 bits   ... p10 3.7 bits   ... sd   ir bcp_hyfA+

{------------------} sd-(12)-ir 2599165 Gap 4.0 bits
 ------------------| sd-ir 2599165 bcp_hyfA+ total 5.5 bits

... ir

... sd   ... ir

... -----------------------------} p35-(23)-p10 2599118 Gap 1.4 bits

{------------------} sd-(9)-ir 2599177 Gap 2.3 bits
 ------------------| sd-ir 2599177 bcp_hyfA+ total 8.7 bits

... -----------------------------| p35-p10 2599118 total 4.1 bits

{---------------- ... sd-(16)-ir 2599184 Gap
 ---------------- ... sd-ir 2599184 bcp_hyfA+ t

... sd

p35 3.8 bits

{--------------- ... p35-(23)-p10 2599198 Gap
 --------------- ... p35-p10 2599198 total 4.8

p35 3.0 bits

{----------- ... p35-(25)-p10 2599203 Gap
 ----------- ... p35-p10 2599203 total 5.3

```
            *        *2599190  *        *2599200  *        *2599210  *        *2599220  *        *2599230  *        *2599240
5' a t g a a a t g c a a t g t t t c a t a t c a t t t t c a a g g a g c c g a c a t g a a c c g c t t t g t g g t g g c 3'
  -fMet - lys - cys - asn - val - asp - lys - his - phe - gln - gly - ala - asp - met - asn - arg - phe - val - val -
       -         - fMet - phe - his - ile - ile - phe - lys - glu - pro - thr -                 -fMet - trp - trp -
  -    - glu - met - gln - cys - phe - ile - ser - phe - ser - arg - ser - arg - his - glu - pro - leu - cys - gly - gly -
```

ir bcp_hyfA+   [------------------------------------ ... NC_000913.hyfA

{---------------} sd-(8)-ir 2599194 Gap 2.4 bits

|---------------| sd-ir 2599194 bcp_hyfA+ total 7.9 bits

[###> orf 11 codons

ir bcp_hyfA+

... ir bcp_hyfA+

sd

... ir bcp_hyfA+

{---------------} sd-(8)-ir 2599223 Gap 2.4 bits

p10   2.4 bits

|---------------| sd-ir 2599223 bcp_hyfA+ total 11.7 bits

p10   6.3 bits

... } sd-(16)-ir 2599184 Gap 6.4 bits
... | sd-ir 2599184 bcp_hyfA+ total 5.8 bits

... sd

... ------------------------} p35-(23)-p10 2599198 Gap 1.4 bits
... ------------------------| p35-p10 2599198 total 4.8 bits

... -------------------------------} p35-(25)-p10 2599203 Gap 4.0 bits
... -------------------------------| p35-p10 2599203 total 5.3 bits